Active Project (2015 - 2018)

Ultra Low Temperature Batteries (ULTB) Project

Game Changing Development Program | Space Technology Mission Directorate (STMD)

ANTICIPATED BENEFITS

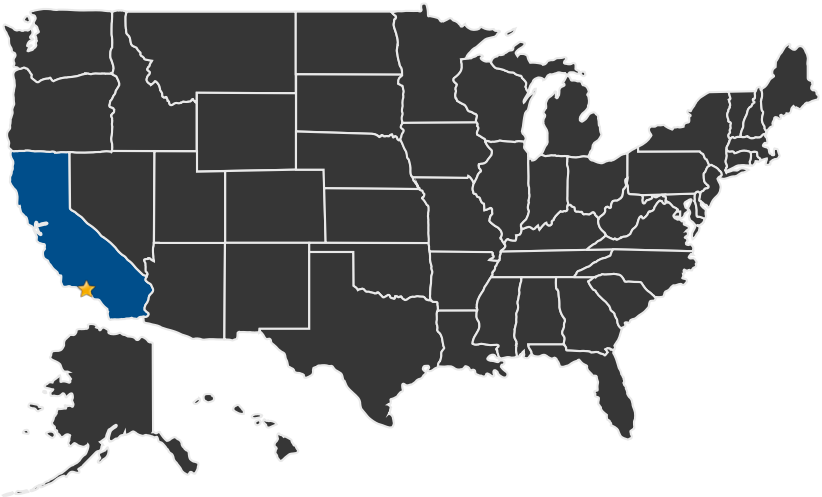
To NASA funded missions:

This technology is required by the current Europa Lander baseline mission. The benefits of the improved specific energy and low temperature operation enable a mission to be executed to meet a minimum set of science requirements.

DETAILED DESCRIPTION

Develop low temperature batteries that enable an extended Europa Lander Mission architecture: Enable and increase the landed mission lifetime (relative to commercially available primary batteries) allowing science operations to proceed until an additional Europa Orbiter pass, Reduces the mass and power consumption to enable an additional science instrument and operations, Greatly enhances power margins, mass margins, and lifetime of the baseline mission

U.S. WORK LOCATIONS AND KEY PARTNERS



U.S. States With Work

Lead Center:
Jet Propulsion Laboratory

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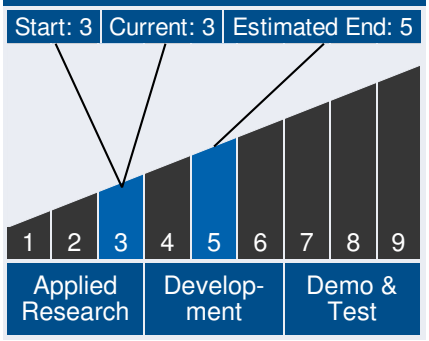
Technology Maturity



Management Team

Program Executive:
- Lanetra Tate

Program Manager:
- Mary Wusk

Project Manager:
- Thomas Cwik

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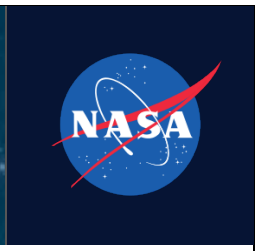

Technology Areas

Primary Technology Area:
Space Power and Energy Storage (TA 3)

DETAILS FOR TECHNOLOGY 1